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Amendments to the claims

This listing of claims will replace all prior versions and listings, of claims in the application:

Listing of Claims:

- 1. (Currently amended) An improved electrolyte for the electrolysis of alumina (Al₂O₃), the electrolyte comprising a mixture of aluminum fluoride (AlF₃) and potassium fluoride (KF), and NaF comprises no more than 2 weight percent of the electrolyte.
- 2. (Currently amended) The electrolyte recited in claim 1 wherein the <u>potassium fluoride</u> (KF) to aluminum fluoride (AlF₃) is present in a molar ratio with potasium fluoride (KF) greater than 1:1 ranges from about 1.0 to 1.5.
- 3. (Currently Amended) The electrolyte recited in claim 1, the electrolyte further comprising from about 2 4 to 6 wt. % of aluminum oxide (alumina/Al₂O₃).
- 4. (Currently amended) The electrolyte as recited in claim 1 wherein the concentrations of the electrolyte components remain <u>relatively</u> constant during electrolysis.
- 5. (Original) The electrolyte as recited in claim 1 where the electrolyte is used to electrolyze the alumina to aluminum at from 660°C to 1000°C.
- 6. (Original) The electrolyte as recited in claim 3 wherein the electrolyte remains liquid during electrolysis.

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7. (Original) The electrolyte as recited in claim 6 wherein inert anodes and wettable cathodes can be used with the electrolyte.

Claims 8-20 (Canceled)